

Date: Fri, 10 Dec 93 04:30:55 PST  
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>  
Errors-To: Ham-Space-Errors@UCSD.Edu  
Reply-To: Ham-Space@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Space Digest V93 #105  
To: Ham-Space

Ham-Space Digest                      Fri, 10 Dec 93                      Volume 93 : Issue 105

Today's Topics:

                    Mode-A Questions  
            NASA STS-61 Shuttle Retransmissions  
            Some satellite tracking questions  
            Special Event Station (WA3NAN) correction  
    Two-Line Orbital Element Set: Space Shuttle (2 msgs)

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>  
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

-----

Date: Thu, 9 Dec 1993 18:37:42 GMT  
From: olivea!news.bu.edu!att!cbnewsc!k9jma@uunet.uu.net  
Subject: Mode-A Questions  
To: ham-space@ucsd.edu

In article <CHruyt.Ktx@rd1.InterLan.COM> tavernin@sun1.interlan.com (Victor  
Tavernini) writes:

>

>I have a couple of questions about Mode-A on RS-10/11 and RS-12/13 ...

Mode A only on RS-10 now and RS-12 listens only on 15 Meters.

>

>1. Is a 10M preamp usually necessary?

I haven't needed one with HTX-100, ICR-7000, or IC725 and a ground mounted  
vertical quarter wave antenna.

>

>2. Is CW used at all on this mode ... or does SSB predominate?

I use about 95% CW, although I hear lots of SSB further up the passband. Seems to be plenty of activity of either flavor.

>

>3. How much power do I need on the uplink and what type of antenna?

I run 90 watts input (50 output) to a SSB converted Viking 6N2 on 2 meters and the antenna is a J mounted on the chimney. On RS12 I use the IC725 TX and a 40 meter flat top antenna. Most times 25 - 50 watts out is enough.

>

>4. Is it practical at all to key the mike, of an FM rig, to produce CW  
> for the uplink?

Tried it on a Heath HW-2036 - lots of chirp, and lack of continuous tuning is a problem. Power was marginal for the J TX antenna.

>

>Thanks,

>

>Victor Tavernini

>Racal-Datacom, Inc.

>

>tavernin@sun1.interlan.com

Good Luck, 73, and hope to see you on the birds.

--

Ed Schaefer

K9JMA ham radio

N97178 aviation

-----

Date: Fri, 3 Dec 1993 13:49:05 GMT

From: dog.ee.lbl.gov!agate!howland.reston.ans.net!spool.mu.edu!

news.cs.indiana.edu!noose.ecn.purdue.edu!mentor.cc.purdue.edu!mace.cc.purdue.edu!  
bap@network.ucsd.edu

Subject: NASA STS-61 Shuttle Retransmissions

To: ham-space@ucsd.edu

Last evening from West central Indiana I tried all evening to get the GARC SSB frequencies 3860, 7185, 14295, 21395, and 28650. 3860 had a lot of stuff on it but I couldn't get it clearly. I heard someone say "Endeavor" faintly but that was all. When I do get something what should I expect? Continuous transmission? Also where is the GARC transmitter and what is its power and azimuth? Is Indiana too far away to get it?

I am using a DX-390 with 140 longwire.

Did anyone else hear anything.

I did get the launch on 5180 SSB at 427 AM EST :-)

Sincerely,

BRET A. PENNINGTON  
COMPUTER TECHNICIAN  
DEPARTMENT OF EARTH AND ATMOSPHERIC SCIENCES  
CIVL 4252 4-0678 (317-494-0678)  
PURDUE UNIVERSITY  
WEST LAFAYETTE, INDIANA 47907  
bap@mace.cc.purdue.edu

-----  
Date: 9 Dec 93 13:06:04 GMT  
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!uchinews!att-out!cbnewsh!  
wa2sff@network.ucsd.edu  
Subject: Some satellite tracking questions  
To: ham-space@ucsd.edu

What are people's opinions on the following:

1) What is a good satellite tracking program?

I have been evaluating traksat and I am close to sending in  
my registration fee.  
I have also seen ads for Instanttrack from AMSAT and Realtrak  
from R Meyers. Are either of these two better and why?  
Should I have more than one, if so why?

2) Are the R Meyers Communications newsletters worth  
the \$64 per year for the two OSCAR reports.  
I do plan to join AMSAT. Is the AMSAT newsletter sufficient?

3) Are there any HW/SW plans for radio control and  
antenna control besides the Kansas City Tracker?  
Was the KCT described in an article somewhere?

Joe Wilkes  
j.e.wilkes@att.com

-----  
Date: Mon, 06 Dec 1993 14:48:23 -0500  
From: sgiblab!darwin.sura.net!haven.umd.edu!cs.umd.edu!skates.gsfc.nasa.gov!  
macgwy-mac2.gsfc.nasa.gov!user@ames.arpa  
Subject: Special Event Station (WA3NAN) correction  
To: ham-space@ucsd.edu

Hi,  
The Goddard Amateur Radio Club will operate WA3NAN from 17:00-18:00 and

22:00-23:00 UTC (5-6 PM EST) December 6-10 to commemorate the 10th anniversary of Shuttle Retransmissions. Operation will be on standard GARC Shuttle Retransmission frequencies, which are

3860, 7185, 14295, 21395 KHz and locally on 147.45 MHz (FM).

For a certificate, send QSL or SWL and a 9x12 inch SASE to

Goddard Amateur Radio Club, WA3NAN  
P.O. Box 86  
Greenbelt, MD 20768-0086

Please note that these times were selected as not to interfere with STS-61 coverage. Also note the time change from a previous announcement!

73

Jim Blackwell, N3KWU  
Goddard High Resolution Spectrograph Science Support  
Computer Sciences Corporation  
NASA/GSFC Code 681.0  
Greenbelt, MD 20771

-----  
Date: Wed, 8 Dec 1993 01:32:26 GMT  
From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!paladin.american.edu!  
afterlife!blackbird.afit.af.mil!tkelso@network.ucsd.edu  
Subject: Two-Line Orbital Element Set: Space Shuttle  
To: ham-space@ucsd.edu

The most current orbital elements from the NORAD two-line element sets are carried on the Celestial BBS, (513) 427-0674, and are updated daily (when possible). Documentation and tracking software are also available on this system. As a service to the satellite user community, the most current elements for the current shuttle mission are provided below. The Celestial BBS may be accessed 24 hours/day at 300, 1200, 2400, 4800, or 9600 bps using 8 data bits, 1 stop bit, no parity.

Element sets (also updated daily), shuttle elements, and some documentation and software are also available via anonymous ftp from archive.afit.af.mil (129.92.1.66) in the directory pub/space.

HST

1 20580U 90037B 93340.57763371 -.00010895 00000-0 -10401-2 0 3720  
2 20580 28.4710 33.0526 0005228 74.4558 285.3400 14.92850041 622

STS 61

1 22917U 93075A 93340.60462947 .00010758 00000-0 10000-2 0 199  
2 22917 28.4724 32.8782 0005129 72.1803 72.9843 14.92862373 635

--

Dr TS Kelso  
tkelso@afit.af.mil

Assistant Professor of Space Operations  
Air Force Institute of Technology

-----  
Date: Mon, 6 Dec 1993 23:12:51 GMT  
From: haven.umd.edu!news.umbc.edu!europa.eng.gtefsd.com!paladin.american.edu!  
afterlife!blackbird.afit.af.mil!tkelso@ames.arpa  
Subject: Two-Line Orbital Element Set: Space Shuttle  
To: ham-space@ucsd.edu

The most current orbital elements from the NORAD two-line element sets are carried on the Celestial BBS, (513) 427-0674, and are updated daily (when possible). Documentation and tracking software are also available on this system. As a service to the satellite user community, the most current elements for the current shuttle mission are provided below. The Celestial BBS may be accessed 24 hours/day at 300, 1200, 2400, 4800, or 9600 bps using 8 data bits, 1 stop bit, no parity.

Element sets (also updated daily), shuttle elements, and some documentation and software are also available via anonymous ftp from archive.afit.af.mil (129.92.1.66) in the directory pub/space.

HST

1 20580U 90037B 93339.57493170 .00028070 00000-0 26172-2 0 3718  
2 20580 28.4705 39.5197 0004900 49.8661 310.3057 14.92996262 474

STS 61

1 22917U 93075A 93340.21665509 .00000271 00000-0 18280-4 0 161  
2 22917 28.4699 35.3802 0005051 69.3021 146.6976 14.92803280 572

--

Dr TS Kelso  
tkelso@afit.af.mil

Assistant Professor of Space Operations  
Air Force Institute of Technology

-----  
End of Ham-Space Digest V93 #105

\*\*\*\*\*  
\*\*\*\*\*